

video data, and the main computer featuring a local input port for receiving input instructions, the device comprising:

(a) a computer monitor for receiving a compressed display signal directly from the local video card through the main transmitter, said computer monitor decompressing said compressed display signal to form the video data for displaying a display to the user according to the video data after decompression, said computer monitor featuring a remote receiver for directly receiving said compressed display signal from the main transmitter; and

(b) a remote input platform for receiving input data from the user and for transmitting said input data directly to the main computer through the main receiver, said remote input platform featuring a remote transmitter for transmitting said input data to the main receiver;

such that the remote computer monitor lacks a CPU (central processing unit) and such that only the main computer has said CPU;

wherein the main computer, said computer monitor and said remote input platform only in combination form a computer, and wherein said computer monitor and said remote input platform are physically separable from the main computer.

31. (Amended) A system for remote interaction with a user, comprising:

(a) a main computer, said main computer featuring a CPU, said main computer comprising:

- (i) a main radio transmitter for transmitting radiowaves and a main receiver for receiving radiowaves;
 - (ii) a plurality of video cards, including at least a first video card being locally connectable and including at least a second video card for compressing a display signal; and
 - (iii) an operating system capable of controlling said plurality of video cards substantially simultaneously;
- (b) a computer monitor for receiving a compressed display signal from said second of said plurality of video cards through said main transmitter of said main computer, said computer monitor featuring a remote radiowave receiver for receiving said compressed display signal, said computer monitor lacking a CPU, said computer monitor decompressing said compressed display signal and displaying a display to the user according to video data obtained after decompression; and
- (c) a remote input platform for receiving input data from the user and for transmitting said input data to said main computer, said remote input platform featuring a remote radiowave transmitter for transmitting said input data, said remote input platform lacking a CPU;
- wherein said computer monitor and said remote input platform are physically separable from said main computer.

Please add new claim 35 as follows:

35. (New) A computer for remote interaction by a user, comprising:

- (a) a local video card for producing a display signal, the display signal comprising at least video data;
- (b) a compressor for compressing said video data;
- (c) a main transmitter for transmitting compressed video data;
- (d) a main receiver;
- (e) a remote computer monitor for receiving said compressed video data directly from said local video card through said main transmitter, said computer monitor further comprising a video expander for decompressing said compressed display signal to form video data, said video data being displayed to the user according to said video data after decompression, said computer monitor featuring a remote receiver for directly receiving said compressed video data from said main transmitter; and
- (f) a remote input platform for receiving input data from the user and for transmitting said input data directly to said main transmitter through said main receiver, said remote input platform featuring a remote transmitter for transmitting said input data to the main receiver;

such that the remote computer monitor lacks a CPU (central processing unit) and such that only the main computer has said CPU; wherein the main computer, said computer monitor and said remote input platform only in combination form a computer, and wherein said computer monitor and said remote input platform are physically separable from the main computer.

from about 2.4 GHz to about 5.8 GHz, as this range does not require a special license in the United States of America.” Such a clearly defined frequency range clearly distinguishes the present invention from Van Ryzin, which does not teach or suggest such a frequency range.

While continuing to traverse the rejections of the Examiner, Applicant has chosen to amend claims 18 and 31 in order to further expedite the prosecution. Claims 18 and 31 now both recite that the computer compresses (hardware or software compression) the display signal, which is then received as a compressed display signal by the computer monitor. The computer then decompresses the compressed display signal in order to be able to display the display signal to the user.

Such a feature clearly distinguishes the present invention from Van Ryzin, which does not teach or suggest such compression as previously described. Furthermore, also as previously described, the claims may be distinguished from Van Ryzin as the latter clearly teaches convergence of a personal computer with non-computer A/V devices such as a video monitor that can act as a television set. Indeed, the system of Van Ryzin quite clearly depends upon the remote monitor being a television set rather than a computer monitor, since a computer monitor has no tuner that could receive RF modulated video broadcasts. It could not display television programs without adaptation of the display, which is neither taught nor described by Van Ryzin. Therefore, if the system of Van Ryzin would be combined with a computer monitor, the result would clearly be inoperative.

The present invention operates with digital video data, while that of Van Ryzin only operates with analog signals, as can be seen in Fig 8B of Van Ryzin. This Figure describes the use of RF modulation composite video, which is clearly analog video. Thus, Van Ryzin does not teach or suggest the use of digital video.

The individual components of the present invention form a complete computer only in combination. Each component is not a stand-alone consumer appliance (unlike Van Ryzin). The purpose of Van Ryzin is to converge independent units, while the present invention divides a single independent unit into smaller dependent units.

Claim 18 was amended for greater clarity and to distinguish over Van Ryzin. In order to clarify that the display signal comprises at least video data the words "the display signal comprising at least video data" were added. The words "to form the video data" were added to specify that after the compressed display signal is decompressed, the display signal is used to form the video data. In step (a) the text "said display signal" was replaced with the text "the video data."

Additionally, in claim 18 the word "compressed" was added to step (a) to specify that a remote receiver receives said compressed display signal. In order to clarify that the present invention seeks to control the components of a computer, not by converging a computer and another consumer electronic appliance (as Van Ryzin does), but instead by dividing a single computer into two dependent, interlocking platforms, which only when combined together

form a fully functional single computer, the word “only” was added to the text “wherein the main computer, said computer monitor and said remote input platform only in combination form a computer, and wherein said computer monitor and said remote input platform are physically separable from the main computer.”

Claim 31 was amended for greater clarity and to distinguish over Van Ryzin. “And including at least a second video card for compressing a display signal” was added to clarify that the display signal is compressed by at least a second video card. The text “display signals” was replaced with “a compressed display signal” and “said display signals” was replaced with “said compressed display signal.” The text “said computer monitor decompressing said compressed display signal and displaying a display to the user according to said display signal after decompression” was added for additional clarity.

New claim 35 has been added to emphasize the video expander aspect of the present invention for decompressing said compressed display signal to form video data.

The present invention fulfills a long felt need for computers that have been divided into dependent, interlocking pieces. At the time of filing of the application, no such idea existed. It would be very useful to be able to remotely interact with different parts of a single computer.

Also, by using compression of video data before transmitting video data to the computer monitor, the present invention is able to more efficiently transmit the video data. By contrast, the system of Van Ryzin as well as other

similar systems that are known in the art, are forced to use complicated protocols in order to obtain the video data, as these systems cannot actually transmit images (video data) readily.

Support for these claims can be found throughout the specification.

In particular, support for “video data” can be found on page 8 line 13 – page 9 line 9. Support for “for compressing a display signal,” “video data after decompression,” “said computer monitor decompressing said compressed display signal,” and “according to said video data after decompression” can be found on page 11 lines 3 - 19. Support for “wherein the main computer, said computer monitor and said remote input platform only in combination form a computer, and wherein said computer monitor and said remote input platform are physically separable from the main computer” can be found throughout the specification including page 7 line 17 – page 11 line 2.

Support for “and including at least a second video card for compressing a display signal” can be found on page 4 line 13 – page 5 line 5 and page 13 lines 1 – 9. Support for “a compressed display signal” and “said computer monitor decompressing said compressed display signal and displaying a display to the user according to said display signal after decompression” can be found on page 11 lines 3 – 19.

Support for new claim 35 can be found throughout the specification including on the page 8 line 13 – page 9 line 9. “A local video card” is supported on page 3 line 21 - page 4 line 12. A “compressor” is supported on page 11 lines 3 – 13. “A main transmitter is supported by original claim 1 and

page 3 line 21 – page 5 line 5. “A main receiver” is supported by original claim 1 and page 3 line 21 – page 5 line 5. “A remote computer monitor” is supported by page 8 line 13 – page 9 line 17. “A remote input platform” is supported by page 9 line 18 – page 11 line 2. “Such that the remote computer monitor lacks a CPU (central processing unit) and such that only the main computer has said CPU” is supported on page 14 lines 3 – 7. “Wherein the main computer, said computer monitor and said remote input platform only in combination form a computer, and wherein said computer monitor and said remote input platform are physically separable from the main computer” is supported by original claim 1, page 2 lines 9 – 21, page 3 line 2 – page 4 line 12, page 7 line 5 – page 8 line 2, and page 20 lines 3 – 20.

35 U.S.C. § 103 Rejections – Van Ryzin, Yen and Phan

The Examiner has rejected claims 20, 21 and 23-24 under § U.S.C. 103 as being unpatentable over Van Ryzin in view of Yen. The Examiner has also rejected claim 25 over Van Ryzin and Phan, and has rejected claim 26 over Van Ryzin. The rejections of the Examiner are respectfully traversed.

The object of Van Ryzin is described above.

The object of Yen is the teaching of particular frequencies for transmission of signals to a television (reference number 1 is described in col 1, lines 59-66 as being a “TV”).

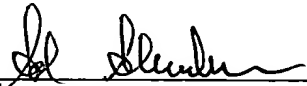
The object of Phan is a video expander.

By contrast, as previously described, the present invention seeks to control the components of a computer, not by converging a computer and another consumer electronic appliance, but instead by dividing a single computer into two dependent, interlocking platforms, which only when combined together form a fully functional single computer. The computer is therefore remote from the computer monitor, such that the computer and the computer monitor communicate through a wireless medium. The computer monitor of the present invention is not a television, which clearly differs from the background art teachings regarding video transmission.

Applicant further notes that as independent claims 18 and 31 are allowable, dependent claims 20, 21 and 23-26 are also allowable.

In view of the above amendments and remarks it is respectfully submitted that claims 18 - 35 are now in condition for allowance. Prompt notice of allowance is respectfully and earnestly solicited.

Respectfully submitted,


Sol Sheinbein

Registration No. 25,457

Date: April 10, 2003

MARKED-UP CLAIMS

18. (Amended) A remote display device for remote interaction by a user with a main computer, the main computer being in communication with a main transmitter and a main receiver, the main computer featuring a local video card for compressing a display signal, the display signal comprising at least video data, and the main computer featuring a local input port for receiving input instructions, the device comprising:

(a) a computer monitor for receiving a compressed display signal[s] directly from the local video card through the main transmitter, said computer monitor decompressing said compressed display signal [and] for displaying a display to the user according to said video data after decompression, said computer monitor featuring a remote receiver for directly receiving said display signal from the main transmitter; and

(b) a remote input platform for receiving input data from the user and for transmitting said input data directly to the main computer through the main receiver, said remote input platform featuring a remote transmitter for transmitting said input data to the main receiver;

such that the remote computer monitor lacks a CPU (central processing unit) and such that only the main computer has said CPU;

wherein the main computer, said computer monitor and said remote input platform in combination form a computer, and wherein said computer monitor and said remote input platform are physically separable from the main computer.

31. (Amended) A system for remote interaction with a user, comprising:

(a) a main computer, said main computer featuring a CPU, said main computer comprising:

(i) a main radio transmitter for transmitting radiowaves and a main receiver for receiving radiowaves;

(ii) a plurality of video cards, including at least a first video card being locally connectable and including at least a second video card for compressing a display signal; and

(iii) an operating system capable of controlling said plurality of video cards substantially simultaneously;

(b) a computer monitor for receiving a compressed display signal[s] from [a] said second of said plurality of video cards through said main transmitter of said main computer, said computer monitor featuring a remote radiowave receiver for receiving said compressed display signal[s], said computer monitor lacking a CPU, said computer monitor decompressing said compressed display signal and displaying a display to the user according to said video data obtained after decompression; and

(c) a remote input platform for receiving input data from the user and for transmitting said input data to said main computer, said remote input platform featuring a remote radiowave transmitter for transmitting said input data, said remote input platform lacking a CPU;

wherein said computer monitor and said remote input platform are physically separable from said main computer.